

Information about the most important events in 2018 Association of Polish Innovators and Rationalizers

12th edition of the International Exhibition of Inventions "IWIS 2018" was held on October 15-17, 2018 in the Main Hall of the Warsaw University of Technology. As in previous years, the event was organized by the Association of Polish Inventors and Rationalizers in cooperation with the Polish Patent Office and the Warsaw University of Technology.

Once again, the exhibition IWIS 2018 was held under the auspices of the President of the Republic of Poland Andrzej Duda. Among the patronage of this year's show were the Ministry of Science and Higher Education, the International Federation of Inventors (IFIA), the European Association of Inventors (AEI), the Polish Federation of Engineering Associations NOT, the Polish Chamber of Chemical Industry, the Main Council of the Research Institutes RGiB.



IWIS is Poland's largest international exhibition dedicated to the promotion of invention and innovation. During the 12th edition were presented solutions from 25 countries, including Romania, Malaysia, Bulgaria, Canada, Croatia, Indonesia, Iran, Taiwan, Thailand, United Arab Emirates, China, Russia and Poland. Polish inventors presented 190 solutions in various fields of science, which globally with foreign inventors gave about 400 solutions, which are a review of technical achievements, some of which have found their place in the industry, and partly awaiting for implementation.

Thanks to the financial support of the Ministry of Science and Higher Education (under the contract 617/P-DUN/2018 by the Ministry of Science and Higher Education allocated for scientific dissemination activities), the Association of Polish Inventors and Rationalizers have the opportunity to organize this year's exhibition IWIS which presented innovative solutions from about 50 polish scientific entities (research institutes, colleges and universities). The International Jury awarded the exhibitors for their inventions following medals: platinum, gold, silver and bronze. In addition, the exhibitors have received a number of special awards to the individuals and organizations that participated in this year's exhibition.

The main task of the International Exhibition of Inventions IWIS is to present achievements of polish scientist and inventors to national and foreign entrepreneurs and institutions. This creates the opportunity to establish commercial contracts for implementation of innovations to the industry, what have contribution to the growth of polish economy. Other important aim of IWIS is to promote innovative attitude and innovation-based perception of the world among young people, what can be the motor for taking on new challenges.

The Opening Ceremony of the 12th International Warsaw Invention Show IWIS 2018 was accompanied by Rector of Warsaw University of Technology prof. Stanisław Wincenciak and the President of the Patent Office of the Republic of Poland Alicja Adamczak. During the ceremony short speeches were given by director of the International Federation of Inventors (IFIA) Zoran Barisic and the president of the Polish Federation of Engineering Associations NOT Ewa Mańkiewicz – Cudny.

Members of the International Jury of IWIS 2018 had a difficult task to select the best from more than 400 solutions, because each of them presented very high substantive and technological level.

Finally Grand Prix IWIS 2018 went to Military University of Technology from Poland for "NERVE – biomedical system for monitoring epilepsy and assessing the effectiveness of medical treatment of children suffering from epilepsy". System provides functions for seizure monitoring, diagnosis and disease monitoring, assessment of drug therapy effectiveness. The product offers continuous child

protection by monitoring possible epilepsy seizures on parents' devices with the use of wireless technology. The system offers very detailed recording and reporting of seizure characteristics and allows for a caregivers to provide postictal questionnaires and descriptions of seizure characteristics, complementing the symptomatology. Built mechanisms of sensory signal analysis and decision algorithms evaluate the intensity and type of seizure on the basis of the obtained diagnostic and symptomatological data - supporting the medical staff in the analysis and final diagnosis. The mechanisms contained in the system allow us to assess the effectiveness of pharmacological therapy, taking into account also a set of epigenetic factors (mood, diet, changes in the environment), which is the most challenging aspect of children with epilepsy monitoring. As a result, NERVE is an ideal tool to support parents and caregivers in the supervision and treatment of children suffering from epilepsy as well as doctors in the correct diagnosis and selection of effective mono or polytherapy.

The Main Award of International Federation of Inventors Associations IFIA went to Central Mining Institute from Poland for the invention „Eco Patrol”. ECO-Patrol is a mobile smog laboratory on the electric car, equipped with meteo station (temperature, humidity, pressure, speed and wind direction) and measuring platform for low emission parameters with independent control system, power and GPS. The most important task of the CMI measuring platforms is the correct and rapid measurement of particulate pollutants concentrations, in particular the PM10 and PM2, 5 fractions. Significant exceedances of the limit values of particulates in the heating season affect the development of respiratory diseases and cardiovascular disease. Respiration affecting pollutants are also carriers of carcinogenic compounds such as benzo (a) pyrene or metallic mercury. Accessories (optional) are measures of the concentration of gaseous products of incineration of waste, such as HCL and formaldehyde, and nitrogen dioxide and ozone to determine the contribution of the communication component in smog. ECO-Patrol is primarily used for the rapid inventory of smog hazards in a significant area of cities or municipalities. The electric car also has the possibility to carry drones Target or selected measurement locations and the Keeping of inventory (mapping, emission levels) of burdensome low emission sources. Measurement results (with map values with route and flight routes) for street or emitters are available (e.g. on www.), have an impact on local awareness, decisions of local governments, and assess the effectiveness of corrective actions. CMI actively works to raise awareness among residents and takes initiatives to support the reduction of low emissions by cooperation with the Office of Marshal in the field of active education by measuring in four Subregions of the Silesian Voivodeship. In 2018, the eco-Patrol of the Central Mining Institute was awarded with the prize of the Provincial Fund for Environmental Protection and Water Management-"Green Cheques"- the Earth Day Prize in 2018 year.

During the IWIS 2018 not only research institutes presented their achievements. Among exhibitors were also enterprises, universities, schools, and individual inventors. All solutions were classified according to 12 different categories ranging from ecology and environmental protection, the mechanics, electronics, energy, to the medical solutions.

World Competition of Chemical Inventors is the contest organized by the International Federation of Inventors IFIA. During this year's exhibition the 7th edition of the World Competition of Chemical Inventions has taken place.

The jury of the competition consisted of:

1. prof. Regina Jeziórska, Institute of Industrial Chemistry, Poland
2. Maciej Studziński, Institute of Industrial Chemistry, Poland
3. Agnieszka Szadkowska, Institute of Industrial Chemistry, Poland

The main prize of the of the 7th World Competition of Chemical Inventions went to Poland to the Pharmaceutical Research Institute for the invention „Technology of the MS drug API”. The invention concerns the fingolimod API technology elaboration. This is the MS drug API, which is not patent protected in Poland. However, there is no generic fingolimod in Poland. The presented invention contains several improvements in comparison to the original one. These improvements embrace

reduction of the reaction steps, simplification of intermediates isolation and elimination of inconvenient reagents.

In summary, the 12th edition of International Warsaw Invention Show IWIS 2018 was a great success. The event every year attracts more and more exhibitors and visitors. We hope that the exhibition will result in a number of implementations of the presented inventions and innovations.

On 22th March 2018, the Association of Polish Inventors and Rationalizers organized **XXIV Stock of Inventions** - National Exhibition which took place in Warsaw, in the historical building of the Polish Federation of Engineering Associations – NOT. During this year's exhibition, 5 institutions and 104 innovative solutions of Polish creators were distinguished by the Minister of Science and Higher Education, which in 2016-2017 received gold and gold medals with distinction, platinum medals at international exhibitions of inventions and modern technologies! Among them are also children and young innovators projects. As it was in the last few years, Stock of Inventions 2018 received patronages from: Patent Office of the Republic of Poland, The Main Council of the Research Institutes, The Polish Federation of Engineering Associations – NOT and several media patronages.

The main purpose of the annual exhibition is to promote the international successes of science units, innovative business entities and individual inventors beyond the research community, to increase the interest of entrepreneurs Polish scientific and technological solutions and innovative products, as well as to honour the medalists of the exhibition of inventions for their international successes.

The Association of Polish Inventors and Rationalizers engaged in various competitions connected with innovations. On 14th June, the 10th edition of the National Competition **“Young Innovator”** took place in the Warsaw House of Technology NOT. The contest organized by the FSNT-NOT and the Association of Polish Inventors and Rationalizers was aimed at inspiring young Poles to think and act creatively in their future professional lives. The Association of Polish Inventors and Rationalizers distinguished four inventions. The awarded Young Innovators received an opportunity to participate and presentation of their innovations on the 12th International Warsaw Inventions Show – IWIS 2018.

On the 23rd March, 2018, the Patent Office of the Republic of Poland organised the workshops for young innovators entitled **“Become an Inventor 2018”** In the meeting took part:

- Alicja Adamczak – the president of the Patent Office of the Republic of Poland,
- Bianka Siwińska – the creator of the "Girls at Universities of Technology" and "Girls to strict" social campaigns
- prof. Michał Szota – President of the Association of Polish Inventors and Rationalizers,
- Agnieszka Mikołajska – Association of Polish Inventors and Rationalizers

During the workshops, dr. Piotr Zakrzewski, a representative of the Patent Office of the Republic of Poland, delivered a speech about the intellectual property.

Moreover, on 11th June, 2018, the Patent Office of the Republic of Poland organized the official awards ceremony for the winners of the competition **“Student-Inventor.”** The Association of Polish Inventors and Rationalizers distinguished 5 inventions. The President of APIaR, Michał Szota honored the laureates with free invitations to participate in the 12th International Warsaw Inventions Show – IWIS 2018. Association of Polish Inventors and Rationalizers supports also their participation at Geneva Inventions in 2019.

The Association of Polish Inventors and Rationalizers took part in exhibitions and conferences dedicated to the innovations and modern economy. On 7th November, 2018, in the Warsaw House of Technology NOT, took place a gala concluded the 6th edition of the competition **“Laur Innowacyjności/ Innovation Laurel”**. The competition was organized for the companies which succeeded in economy and used innovative solutions and ideas.

In 2018 the Association of Polish Inventors and Rationalizers took part and organized polish stand during many International Exhibitions of Inventions such as (i.a.):

- Bangkok International Intellectual Property, Invention, Innovation and Technology Exhibition IPITEX 2018, Thailand, Bangkok
- 45. International Exhibition of Inventions Geneva 2018, Switzerland, Geneva
- European Exhibition of Creativity and Innovation Euroinvent 2018, Romania, Iasi
- Invent Arena 2018, Czech Republic, Trnava
- SVIIF, United States of America, Santa Clara
- International Invention Show and Technomart INST 2018, Taiwan, Taipei
- IEI @WIIF, China, Foshan
- IYIA, Indonesia, Bali
- International Exhibition of Inventions ARCA 2018, Croatia, Zagreb
- International Trade Fair - Ideas - Inventions - New Products iENA 2018, Germany, Nurnberg
- IIDC Hong Kong,
- SIIF, Korea, Seoul.

In addition to the promotion of Polish innovative solutions at the international exhibitions of innovation, the Association of Polish Inventors and Rationalizers also cared about the atmosphere in the Polish exhibition stands. During the exhibition, "Geneva Inventions 2018", the Association of Polish Inventors and Innovators organized, as every year, a "Polish Day". It was an event dedicated to honoring Polish inventions and innovations presented at the exhibition.

Association of Polish Inventors and Rationalizers constantly collaborates with Polish diplomatic missions and embassies all over the world, among others, in Malaysia, Switzerland, Taiwan, Thailand, Russia, Germany.



President of the
Association of Polish Inventors
and Rationalizers